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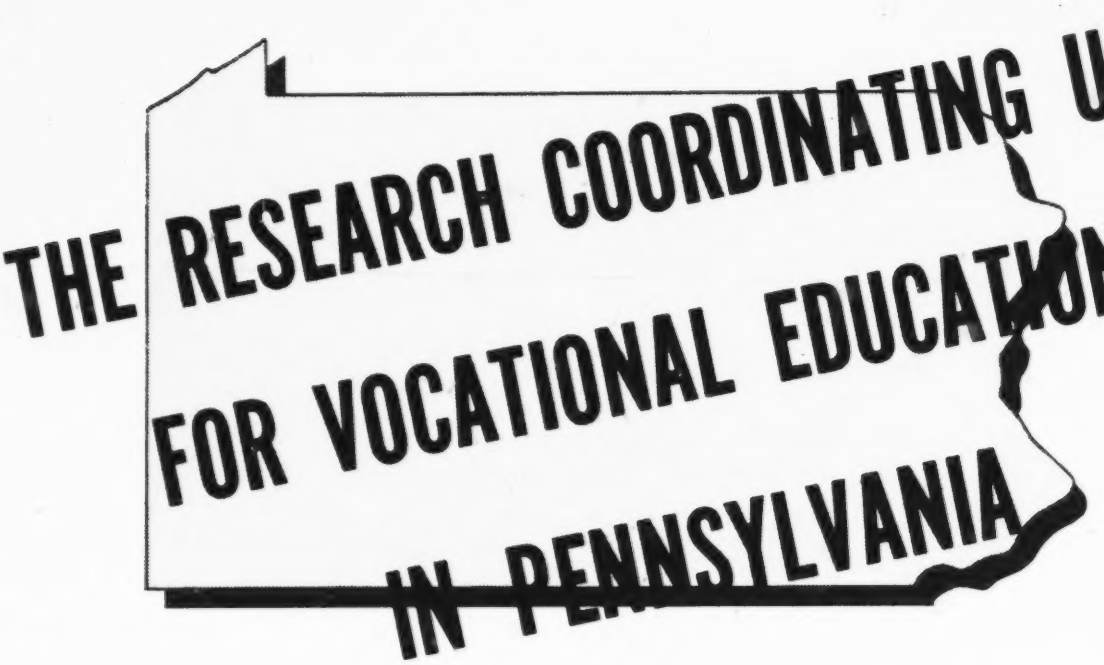
ABSTRACT

This annual report presents an overview and brief descriptions of the activities of the Pennsylvania Research Coordinating Unit for fiscal year 1972. The narrative section touches on the research and exemplary projects monitored, conferences held, career education projects, and other concerns. The appendix contains an annotated listing of all funded research and research-related projects in the fiscal year by project number, agency or person, title, and amount funded. (MF)

FINAL REPORT

ED 072281



FISCAL YEAR 1972

(JULY 1, 1971 — JUNE 30, 1972)

VT019783

ED 072281

FINAL REPORT

FOR FISCAL YEAR 1972
(JULY 1, 1971 - JUNE 30, 1972)

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THE RESEARCH COORDINATING UNIT

FOR VOCATIONAL EDUCATION IN PENNSYLVANIA

Dr. Ferman B. Moody, Director

JULY 1972

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
OFFICE OF EDUCATION
BUREAU OF ADULT, VOCATIONAL AND TECHNICAL EDUCATION
PROGRAM DEVELOPMENT AND OPERATIONS BRANCH

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Mr. James P. Lewis . . . . . Research Assistant

Mr. John K. S. Senier . . . . . Research Assistant

Mrs. Jeanne Brownewell . . . . . Stenographer

Miss Deborah Runkle . . . . . Stenographer

Mrs. Donna Wieseman . . . . . Stenographer

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INTRODUCTION

The Pennsylvania Research Coordinating Unit is one of four divisions within the Bureau of Educational Research in the Department of Education. The RCU is administratively responsible to both the Director of the Bureau of Educational Research and the State Director of Vocational Education. The organizational structure has allowed the RCU staff to communicate effectively and to maintain an excellent working relationship with personnel in both bureaus.

The general objectives of the RCU are to:

1. Stimulate and encourage occupational education research and development activities in Pennsylvania;

2. Coordinate occupational education research conducted within Pennsylvania;

3. Disseminate information on progress and results of occupational education research and

4. Plan and conduct needed occupational education research when other agencies are reluctant to do so.

The purpose of this final report is to present an overview and brief description of the activities of the RCU for federal fiscal 1972 (July 1, 1971 - June 30, 1972).

EXEMPLARY, RESEARCH AND RELATED ACTIVITIES

Research and Related Projects

One of the major objectives of the RCU is to coordinate occupational education research activities conducted within Pennsylvania. The RCU assists in the review and approval of proposals submitted by agencies seeking funds from the Bureau of Vocational, Technical and Continuing Education.

The RCU has the major responsibility for receiving and reviewing proposals and for monitoring approved projects. A substantial increase in funding requests has necessitated more staff time being spent in reviewing and evaluating proposals. In federal fiscal 1972, 85 research and exemplary proposals were approved for funding from the BVTCE for research and related activities. Some of these projects were completed during 1971-1972 school year, others were approved in advance for operation during the 1972-1973 school year. The projects were submitted by local school districts, county offices, colleges, universities and individuals who received mini-grants for masters' or doctoral studies.

If a proposal is funded, the RCU staff works closely with the project director to accomplish the proposal objectives. Progress in the project is ascertained through periodic reports and visits by RCU personnel. If a proposal is disapproved or modification is requested, the RCU staff informs the submitting agency of the action. A disapproval requires written notification with substantiation. Other possible funding sources may be noted in the letter of disapproval. If modification of a proposal is suggested by the reviewers, an RCU staff person works with the submitting agency to revise the proposal. When the necessary revisions are completed, the proposal can be resubmitted for funding consideration.

An abstracted listing of the funded projects through the RCU during federal fiscal 1972 appears in Appendix A. The projects are described by:

1. Project Number
2. Agency and Person
3. Title and Abstract
4. Amount of Funds

Exemplary Projects

The RCU has been working cooperatively with the Division of Vocational Guidance in the Bureau of Pupil Personnel Services, Pennsylvania Department of Education, on several exemplary projects. One project is the modification and development of a statewide occupational information program known nationally as Vital Information for Education and Work.

The Pennsylvania adaptation of the VIEW concept is known as PENNscripts. The RCU assisted in the development of approximately 200 information scripts for the project. The unique feature of PENNscripts is the final page of each script. This last page contains specific information (salary, current job market, future trends) for the various Bureau of Employment Security offices in Pennsylvania. The localized information is completed for eight labor market areas in Pennsylvania. Information for the other labor market areas in the state is in various stages of processing and should be completed by December 1972.

The decks are free to schools with access to a microfiche reader or reader-printer. To date, 183 requests from schools have been processed. In addition to requests by schools in the labor market area, PENNdecks can be found in community colleges, state colleges and universities, the state library, Bureau of Employment Security offices, intermediate units and counselor education departments.

Another area where the RCU is assisting the Division of Vocational Guidance is the development of career resource centers. Five exemplary career resource centers completed their second year of operation as of June 30, 1972. These centers are an attempt to improve the approach to providing career information resources to students within the school settings of the Commonwealth of Pennsylvania. The CRCs are demonstrating a realistic process by which all students will have increased utilization of the information and resources vital to the decision-making points of the career development process.

The RCU supported two other projects with exemplary monies. One of these was at Hazleton Area Vocational-Technical School. The project involved the development and utilization of video tapes for dissemination of occupational information through regional industrial participation. The purpose was to bring the real world of work into the classroom via video tapes.

The final exemplary activity was a distributive education project at the University of Pittsburgh. The purpose of the project was to develop simulation packages for teaching distributive education in school districts which have little or no opportunity to place students in training stations. The materials might have application for disadvantaged and handicapped students who are difficult to place on these jobs.

National RCU Directors' Conference

Two representatives from Pennsylvania attended the National RCU Directors' Conference held in New Orleans on March 20 through 23, 1972. The conference featured presentations from each of the field sites of the Ohio State Center career education project. This presentation was essential to our understanding of the national program.

Dr. Ferman Moody from Pennsylvania was elected at the annual business meeting to serve as president of the organization for the 1972-1973 year.

State Plan

The Pennsylvania RCU participated in the preparation of the research, exemplary and manpower sections of the Pennsylvania State Plan for Vocational Education.

Career Education Projects

The U.S. Office of Education announced approval of a school-based career education program for Pennsylvania. This program had been submitted by the Pennsylvania Department of Education as assurance that career education would be the major focus of research efforts during the current year. This approval meant that the Pennsylvania Department of Education received the $498,124 allotment from the commissioner's share of the research funds.

The program submitted for effective use of these funds was developed cooperatively by staff from the RCU, the Bureau of Vocational, Technical and Continuing Education, the Federal Education Project Center in Meadville, the Admiral Peary AVTS and the school districts of Philadelphia and McKeesport. The total package is designed to provide emphasis of one project in each of the three grade levels (i.e., elementary, junior and senior high schools) and a fourth program encompassing all levels. This coordinated dual approach should provide many useful and generalizable tactics for achieving the objectives of career education.

Although the projects are all reaching toward the same ultimate goal--a complete career education program--the methodology at each site differs. These variations in methodology may be important features for providing alternative solutions to future implementation.

The four districts were selected on the basis of their previously expressed interest and commitment to the principles of career education, the variations they provided with respect to age-grade focus and social, economic and geographic considerations.

Meadville--The goal of this project is to develop and implement a model career-oriented curriculum for use at the K-6 level. This curriculum will be developed around occupational clusters by teams of teachers, guidance counselors, consultants and an advisory committee from the community. It will focus on career awareness, self-awareness and personal, social and economic significance of work.

The specific objectives of the project are to:

1. Integrate career and self-awareness with the basic academic materials of the K-6 grade levels.

2. Expose each pupil to a range of career clusters within the context of maturity level.

3. Individualize the learning program for each of the pupils to meet their interests and concerns.

4. Demonstrate the feasibility of using existing computer facilities for storage and retrieval of career-oriented curricula.

Philadelphia--A total instructional program oriented to career and self-exploration will be developed including the following elements:

1. Career exploratory experiences outside the school building and related "hands-on" experiences in school.

2. A curriculum in school which provides for integration of exploratory experiences and use of other career-related resources.

3. A guidance and counseling program to assist pupils to use the exploratory and curricular experiences in career planning and decision-making.

4. Placement for pupils terminating formal education at the junior high level.

Ebensburg--This project will develop and implement a career preparation program utilizing a flexible scheduling arrangement to facilitate an unlimited number of career offerings. The scheduling arrangement will utilize educational module (or unit) descriptions and computer programs which, when put together, will allow the student and counselor to tailor an individualized occupational program to the abilities and aspirations of each student.

The project will also feature a placement service for students to provide: cooperative work experience, full-time occupational placement, educational placement, part-time and summer employment, employer contacts and follow-up.

McKeesport--At the elementary school level, two units in career education will be developed and implemented for each grade. The focus of the units will be to develop favorable attitudes toward work, an awareness of the importance of work to the individual and an introduction to the broad range of career options.

At the junior high level, the chief objectives of the program will be to help students begin the process of focusing on a narrower range of occupational choices and to offer a variety of "hands-on" experiences.

At the senior high level, an attempt will be made to help each of the students identify a single occupational cluster as their area of interest. The program of studies will be geared to these occupational clusters and during their senior year they will have an opportunity to have a work experience of at least nine weeks in an occupation in their chosen occupational cluster. The guidance component will include a placement office to serve students desirous of entering the world of work before or upon graduation.

An organizational meeting has been held involving all of the project directors and staff from the Pennsylvania Department of Education. This meeting was the basis for further communication and coordination of the program. The project directors, as a group, also testified before a committee on career education from the Pennsylvania House of Representatives.

Dissemination Activities

VEIN--The Pennsylvania RCU has developed a model for the statewide dissemination of research and related information to vocational educators. The dissemination project was developed in concert with the cooperative effort involving the Center for Vocational and Technical Education at The Ohio State University and RCU's in California, New Jersey, New York, Nevada, Oklahoma and Wisconsin.

The Vocational Education Information Network operates at Millersville State College in the Department of Educational Media. VEIN's staff and facilities are housed in the Ganser Library at the college. Information services conducted include workshops and presentations throughout the state to acquaint educators with the capabilities of information systems and the wide range of information available to them. Administrators, counselors, librarians, teachers, researchers and advisory group personnel are counted among the growing number of persons requesting information searches. In addition to these precise searches, other information is directed to individuals and groups on a selective basis (SDI concept). Articles and documents are reproduced from the basic collection of over 70,000 ERIC documents, periodicals and local research reports. Printed copy is sent when microfiche reading equipment is not available.

A computer-based search technique has been developed to expedite the custom searches performed by the information specialists. Public relations activities include advertising and audio-visual techniques to increase the visibility of the information and dissemination services for its targeted audience of vocational and career educators.

VEIN cooperates with other information systems in the state and nation to promote utilization of documented information. A human resource file is also being generated to quickly identify persons with special capabilities and knowledge. Efforts have also been initiated to assist residents within the state to locate appropriate vocational and technical programs, and to alert program directors to the vocational needs of previously unidentified potential students.

RCU Reporter--The RCU continued to publish and distribute the RCU Reporter during fiscal 1972. The newsletter has proven to be a valuable tool to disseminate research and research-related information to 6,500 interested educators. It is also designed to bridge the "utilization gap" between researchers and practitioners. The newsletter conveys general information from the BVTCE and related agencies.

Two standard features in the newsletter are the State Director's Column and Clip and Save. The former is written by Dr. John W. Struck, State Director of Vocational Education. The latter features annotated bibliographies of outstanding research projects and publications. Each quarterly issue of the newsletter also includes short summaries of research projects that have been funded by the RCU and activities of the BVTCE program staff.

A Model for State and Local Program Planning and Evaluation in Vocational Education

The purpose for developing this model was to provide a systematic method for state departments of education to help local school districts establish better planning capacities to cope with short- and long-range vocational education program planning problems.

It incorporates three planning levels. These are the socio-economic planning, vocational education program planning and vocational education resources planning. The model uses a manpower requirements approach which incorporates occupational projection techniques developed by the Bureau of Labor Statistics, U.S. Department of Labor and modified by the Pennsylvania Bureau of Employment Security. The approach makes possible matching of educational graduate supply with occupational requirements. This model utilizes labor market supply and demand information to provide local level planners an opportunity to (1) assess the relationships of present vocational education programs to labor market needs and (2) develop a future program that will tend to reduce such discrepancies. Plans for refinement of the model and updating of data sources are presently being conducted.

A revised edition of the publication, "Planning Vocational Education Programs in Pennsylvania: Guidelines for the Use of Labor Market Information," has been published.

Summary of Pennsylvania Population Growth and Net Migration Study: 1960-1970

This study was undertaken to determine if the past migration loss for Pennsylvania continued during the decade 1960-1970. The other factors considered in the study are: (1) counties most affected by net migration and (2) age and sex groups contributing most to net migration.

The results of the study are contained in the report, "Pennsylvania Population Growth and Net Migration 1960-1970."

Included in the report is a detailed explanation of methodology used for determining net migration for an area by age, by sex and for total.

Job Placement Service Model

The purpose of the project was to design a comprehensive job placement program for public secondary schools which offer vocational-technical programs.

The project emphasizes methods to identify and use information from students, school staff, business and industry, governmental agencies, organizations and existing placement programs and services.

Specific questions directed to the project include:

- What provisions exist in public schools for job placement?
- What articulation is needed between educational placement and job placement?
- What resources are needed for the development, operation and evaluation of an effective job placement service?
- What are the personnel needs for developing and operating a comprehensive job placement service?

The project could provide public secondary schools with a model from which a placement service could operate providing effective educational and job placement services based on student needs and interests.

CONFERENCES

During the past year, members of the RCU staff have attended numerous meetings and conferences. The major conferences are listed below:

1. National RCU Directors' Conference--New Orleans, Louisiana
2. USOE Regional Conference on Disadvantaged and Handicapped--Philadelphia, Pennsylvania
3. Curriculum Workshop for AVTS--Ebensburg, Pennsylvania
4. American Vocational Association Conference--Portland, Oregon
5. Exemplary Project Coordinating Conference--Columbus, Ohio
6. Pennsylvania Education Research Association Spring Meeting--The Pennsylvania State University
7. Pennsylvania Industrial Arts Association Conference--Camp Hill, Pennsylvania
8. Vocational Administrators of Pennsylvania Conference--Carlisle, Pennsylvania
9. Simulation Trainers' Workshop--Ohio State University
10. Lancaster County Career Education Workshop--Brownstown, Pennsylvania
11. Educational Congress--Pennsylvania Department of Education, Harrisburg, Pennsylvania

FUTURE ACTIVITIES

Some of the major activities planned for federal fiscal 1973 are:

1. To review exemplary and research and related proposals submitted to the RCU and take appropriate action relative to funding.

2. To monitor projects approved during the past and current fiscal year.

3. To follow-up and assist with the dissemination of results of worthwhile research activities.

4. To continue to keep abreast of developments in the follow-up phase of the Vocational Education Management Information System (VEMIS) and to apply such findings to research policy.

5. To develop and implement a strategy for expanding career education model activities to a large number of school districts in the Commonwealth.

6. To continue to cooperate with the Center for Vocational and Technical Education at the Ohio State University and Millersville State College to expand and evaluate the services and activities of VEIN.

7. To continue to cooperate with the Division of Vocational Guidance in the development of PENNscripts and the operation of education resource centers.

8. To continue to update and revise occupational projections by labor market area in cooperation with the Office of State Planning and Development and Department of Labor and Industry through utilization of the 1970 census data.

9. To stimulate and encourage the development of occupational education research at all levels in the state.

10. To plan and initiate the development of guidelines for the implementation of the vocational-technical education program planning model in local schools.

11. To pursue the development and implementation of modular scheduling in area vocational-technical schools via a demonstration project.

12. To continue to assist the BVTCE and Bureau of Educational Research in related activities.

13. To attend and participate in workshops, meetings and conferences which will enhance the competencies and working relationships of the RCU staff.

14. To communicate often with BVTCE personnel and discover new techniques for providing greater research services.

APPENDIX A

AN ABSTRACTED LISTING OF RESEARCH AND RESEARCH-RELATED PROJECTS FOR THE FISCAL YEAR 1971-1972

FUNDED BY THE PENNSYLVANIA
BUREAU OF VOCATIONAL, TECHNICAL AND CONTINUING EDUCATION

MONITORED BY THE PENNSYLVANIA
RESEARCH COORDINATING UNIT

Project No.	Agency/Person	Title/Abstract	Amount
19-1001	Pennsylvania Health Council Mr. Raymond Clugh	"Practical Nursing Licensing Examination Achievement Relationship to Work Performance and Retention" The project is designed to make a comprehensive study of the practical nursing licensing examination in Pennsylvania. Some of the variables to be considered are: examination achievements, job satisfaction, job retention, faculty qualifications, social economically disadvantaged students, personal and academic characteristics.	$25,102.00
19-1002	Gannon College Dr. William Culp	"Project GIVE" Project GIVE will train experienced teachers and counselors who work with children in grades 3 through 6 to develop and use a vocational guidance program in their school.	$29,157.00
19-1003	Indiana University of Pennsylvania Mrs. Alma Nagle	"The Status of Future Business Leaders of America (FBLA) Chapter Activities in the State of Pennsylvania (1967-1970)" The purpose of this project is: determine the status of FBLA activities in Pennsylvania; to provide chapters with information and ideas of successful activities in other chapters; to determine the reasons	$ 685.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1003 (continued)		for chapter success in the identified activities; and to assess the advisor's contribution to the success of the clubs.	
19-1005	Bloomsburg State College Mr. Frank Davis, Jr.	"An Educational Application of Queueing Theory" The purpose of the study is twofold: first, to develop a simulation model applicable to the investigation of interrelationships between students and teachers in the individualized classroom; and second, to gather data and simulate two types of classrooms utilizing the resulting computer printout.	$ 975.00
19-1006	Central Chester County Vocational-Technical School Mr. Robert Stewart, Jr.	"Development and Preparation of Chemical Technology Course Manual Volume I" This proposal has the specific objectives to prepare Volume I of a secondary level chemical technology course manual.	$ 4,906.00
19-1007	Temple University Dr. Marvin Hirshfeld	"Cooperative Program for Disadvantaged Youth" The project will attempt to bring available manpower from a pool of unemployed disadvantaged youth who	$92,466.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1007 (continued)		have left regular education to an equal number of employment shortages identified by the business community.	
19-1008	Pittsburgh Public School District Mr. Jesse Bounds	"Slides as a Visual Supplement to the Carpentry Curriculum" This project is to prepare a relevant visual supplement of 35 mm colored slides for the vocational carpentry curriculum. The slides will depict the various stages of house construction from foundation to completion.	$ 490.00
19-1009	Temple University Mr. Robert Klingler	"An Assessment of the Adequacy of Vocational, Technical and Industrial Education Programs in Secondary Schools of Pennsylvania in Meeting Dropout Prone Students' Needs" The purpose of the study is to determine how present programs in vocational-technical education are meeting the preemployment training needs of dropout prone students who are enrolled in the secondary schools of Pennsylvania.	$ 1,000.00
19-1010	Bucks County Intermediate Unit Dr. James Ross	"Supervised Independent Study Program" The purpose of the program is to provide educational opportunities for the disadvantaged and handicapped	$39,850.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1010 (continued)		individuals residing in Bucks County; specifically, the program will provide a vehicle for supervised independent study for the school dropout, the unemployed and the underemployed, the socially and culturally disadvantaged and for persons with special needs not currently being met in the formal education program.	
19-1011	Pittsburgh Public School District Mr. Robert Easley	"A Study to Determine the Effectiveness of the Laboratory Technician Program in Placing Students in This or Any Related Paraprofessional Health Field" The purpose of this project is to survey and evaluate a lab technician program at the secondary level. Survey results will be used to determine program viability, techniques for students and health occupations needs.	$ 385.00
19-1012	The Pennsylvania State University Dr. Samuel Curtis	"Education in Agriculture for the Educationally Disadvantaged" The project will prepare educational materials and teachers in agriculture to teach educationally disadvantaged students in vocational agriculture classes.	$29,700.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1013	The Pennsylvania State University Dr. Joseph Impellitteri	"A Longitudinal Study of Vocational Development and Program Evaluation: Implications for Curriculum Planning and Vocational Guidance" The purposes of the project are: to provide feedback about the in-school achievement and development of selected youth, as related to their initial characteristics and the nature of the courses of study in which they are enrolled.	$50,000.00
19-1014	Central Columbia School District Mr. Carl Everett	"Development of Modular Courses in Vocational Curriculum" Intent of the project is to develop course offerings in modules of multiples of three-weeks' duration to facilitate course organization. Concurrently, an individualized vocational guidance program will be developed. The study variables include the effect of modular scheduling on cooperative occupational experience programs, vocational club activities and enrollment patterns of students with various occupational objectives.	$16,050.00
19-1015	The Pennsylvania State University Dr. Edwin Herr	"The Development of Selection Models for Pennsylvania Area Vocational-Technical Schools--Phase I, The Uses of Available Data"	$31,461.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1015 (continued)		The purpose of the proposed investigation is threefold: first, to identify the degree to which specific courses require similar student characteristics across a stratified sample of area vocational-technical schools in Pennsylvania; second, to identify those student characteristics which are predictive of student membership in different curricular groups in a stratified sample of area vocational-technical schools in Pennsylvania; and third, to identify those variables which are predictive of different student achievement levels within curricular groups in a stratified sample of area vocational-technical schools in Pennsylvania.	
19-1016	The Pennsylvania State University Dr. Thomas Powers	"Development of a Validated Instructional System for Hospitality Education" The purpose of the project is for the development of a prototype instructional system in hospitality education at the postsecondary level. The program substitutes controlled field experiences for portions of the traditional laboratory experiences.	$28,434.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1017	Hazleton Area School District Mr. Paul Wensko	"Orientation and Implementation of Basic Skills Affiliated with Trade and Industrial Careers" The project will serve to: 1. Orient incoming sophomores to the desired trade 2. Establish basic trade skills for educationally disadvantaged and special education students. Hopefully, it will lead to a mature career decision.	$ 3,300.00
19-1018	Pottstown School District Mr. William Smith	"G.A.T.B. Testing for Vocational Placement into Vocational Education Courses" School personnel will use the G.A.T.B. to test students in the 9th grade who apply for entrance into the vocational department and students undecided regarding placement. The aptitude test will be administered to the above students for improved placement in senior high school vocational training areas.	$ 910.00
19-1020	Lenape Area Vocational-Technical School Mr. Edwin Riebel	"A Functional Approach to the Study of English for the Auto Shop Student" The proposal is to develop an English workbook for students enrolled in the auto mechanics course at Lenape Area Vocational-Technical School.	$ 500.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1021	Admiral Peary Area Vocational-Technical School Dr. Bryan Fluck	"A Laboratory and Curriculum Design for the Newly Emerging Technology of Pollution-Corrosion Measurement and Control" To study areas of corrosion and pollution as they affect industry, utilities, mining and agriculture; and to develop a comprehensive instructional program in these areas of ecology.	$16,500.00
19-1022	Johnsonburg Area Schools Mr. Thomas Taylor	"A Program to Train Workers in the Production, Harvesting, Processing and Marketing of the Woodland Crop and the Manufacturing of Paper from the Crop" To determine the makeup of a curriculum and to determine the basis of a program in forest industries for the 1971-72 school term.	$ 6,820.00
19-1023	Temple University Mr. James Adams	"Development of Occupational Information Materials for Spanish-Speaking Children" The project will identify, develop and translate relevant occupational materials for the use of Spanish-speaking children.	$32,095.00
19-1024	The Pennsylvania State University Dr. Curtis R. Finch	"Troubleshooting Instruction in Vocational-Technical Education Via Dynamic Simulation"	$ 1,810.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1024 (continued)		The project is an extension of a previously funded proposal. The proposal provides for final report development, printing and dissemination of the results of the previous simulation study.	
19-1025	Meadville Area School District Mr. James Peters	"Unifying and Individualizing Vocational Education (Developmental Phase)" This project is a student-centered program which will: 1. Articulate the learning process with the vocational-technical world as the core 2. Concern itself with the skills, the growth and development, the interests and needs and the self-image of the student 3. Individualize the learning program for each student to meet his interests and concerns through a computer retrieval system. In addition, this project will provide a coordinated program utilizing at least one vocational-technical school and seven local high schools.	$43,750.00
19-1026	Admiral Peary Area Vocational Technical School Dr. Bryan Fluck	"A Modular Scheduling Program for Vocational-Technical Schools: A Demonstration Model"	$55,160.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1026 (continued)		The purpose of this project is to develop the materials and gain the experience necessary to demonstrate a complete vocational program based on the concept of building toward one's own career objectives by selecting, as an individual, needed skills and knowledge modules or units from the total vocational offerings. Occupations will be analyzed in terms of what skills and knowledge are necessary for entry and advanced levels of competence. The vocational program of each pupil will be made up individually of those course segments that best fit his occupational objectives.	
19-1027	School District of Philadelphia Dr. John Peper	"A Study of the Vocational and Technical Education Program Curriculum Structure in the Philadelphia Public Schools" A Research Survey of the Administrative and Curriculum Structure of the Vocational and Technical Program in the Philadelphia Public Schools with detailed recommendations for change. This will include component reports in the following areas to insure that the program is meeting the needs of youth, pertinent to the local labor demands and provides flexibility to choose from a cluster of related occupations. The component reports are:	$50,000.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1027 (continued)		1. Report on first entry job classifications 2. Projections of job needs 3. Report of first entry skills 4. Report of second and third level skills 5. Report of projected graduates 6. Summary of job clusters 7. Recommendations for longitudinal studies 8. Recommendations for additional research projects.	
19-1028	Pittsburgh City Schools Dr. R. G. Lamping	"Revision and Development of Skill Area Teacher Competency Test Materials" Under the leadership of a research and test development consultant, teacher test development teams consisting of two master teachers of each skill area, assisted and advised by craft advisory committee members, will review and evaluate the existing material to revise and/or adopt new material as necessary to result in final-form teacher competency tests in ten skill areas.	$24,986.00
19-1029	Pennridge School District Mrs. Natalie P. Nichols	"Open Space Concept in Business Education" The purpose of this project is to develop an innovative business education program by using an Open Space Concept.	$16,617.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1031	The Williamson School Mr. John S. Boyd	"Systems Laboratory Research Program" The purpose of this project is to design and construct equipment to monitor and control a systems circuit. The procedure for analyzing, isolating and correcting the faults within a system will be emphasized.	$ 4,000.00
19-1032	Neshaminy School District Dr. Joseph E. Ferderbar	"Exemplary English/Language Arts Curriculum Development Program for Vocational-Technical Education Students" The purpose of this project is to develop micro-courses which summarize objectives, activities, learning strategies employed and materials and equipment used in a sequentially structured English/Language Arts program of experiences that will be more relevant to vocational-technical school students' needs.	$18,947.90
19-1033	Chestnut Ridge School District Mr. Ted Amick	"A Research Program to Determine the Effective Use of Closed-Circuit Video Tapes in an Agricultural Teaching Situation" The purpose of this project is to determine what areas of study in the vocational agriculture classes can be taught with greater student learning with the use of televised closed-circuit video tape compared to teaching	$ 8,371.54

Project No.	Agency/Person	Title/Abstract	Amount
19-1033 (continued)		the same areas of study to vocational agriculture classes without the use of televised closed-circuit tape.	
19-1034	Pennsylvania Health Research Institute, Inc. Mr. William B. Boswell	"Preplanning Project, Health Services Core Curriculum" The goal of this project is to formulate an integrated planning implementation project for the development of a health occupations core curriculum model for urban secondary students.	$55,400.00
19-1035	West Chester State College Dr. M. J. Higgins	"An Experimental Program to Provide In-Home Vocational Training in Preschool and Day Care Work for Unskilled Disadvantaged Mothers and Child-Caring Adults" This study will investigate the merits of an in-home vocational training program in the high priority area of preschool day care work in comparison with a similar program offered at a central location as part of 4-C Interagency Manpower Training Program.	$ 9,210.00
19-1036	The Pennsylvania State University Dr. Angelo C. Gillie	"A Supply/Demand Model for Vocational Education Planners" This is Phase I of a two-phase project that will attempt to generate manpower supply/demand information combined with a systems approach for evaluating the	$13,622.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1036 (continued)		information. It is expected that this information will be a useful input for vocational educators in planning curricula. It is anticipated that the supply/demand model will be able to render occupational information for 10 years.	
19-1037	Altoona Area Vocational-Technical School Mr. Daniel A. Clark	"Instrumentation and Industrial Technology" This project will result in the development of course curricula in the areas of instrumentation and industrial technology. Planning and development will be a cooperative effort between the Altoona Area Vocational-Technical School and the Altoona Campus of The Pennsylvania State University. This cooperation should insure a comprehensive educational program in the preparation of the postgraduate students in these technologies.	$18,236.00
19-1039	Mansfield State College Mrs. Charlotte J. Farris (Mini-Grant Type A)	"Changes in Student Teachers' Classroom Verbal Behavior as a Result of Pupil Feedback" The study will involve two groups of home economics student teachers at Mansfield State College. Through the use of a feedback instrument, pupils will supply one group of student teachers with information concerning	$ 912.15

Project No.	Agency/Person	Title/Abstract	Amount
19-1039 (continued)		their use of direct and indirect classroom behavior. Pre- and post-interaction analysis data will be compared with a control group.	
19-1040	Temple University Mrs. Ruth K. Horwitz	"Simulated Office Evaluation" This study will compare the effectiveness of the high school office practice program which includes a simulated office experience to the office practice program without the simulated office. The two groups will be compared on: 1. Office Employment Expectations (Attitude toward a job) 2. Clerical Abilities 3. Job Satisfaction 4. Job Performance	$ 1,450.00
19-1041	Berks County AVTS Mr. C. R. Zimmerman	"Developmental Research to Determine Employment Opportunities and Occupational Competencies Needed in Off-Farm Agricultural Occupations in Berks County" The major goals of the project are to: 1. Determine employe needs of industry for trained and semi-trained personnel in agricultural occupations 2. Determine competencies needed by employes of the agricultural businesses.	$10,718.44

Project No.	Agency/Person	Title/Abstract	Amount
19-1041 (continued)		3. Determine availability of students for this training 4. Determine adult program opportunities.	
19-1042	The Pennsylvania State University Dr. Thomas E. Long	"Determination of the Basic Mathematical Skills Needed for Secondary Vocational Education Students" This study will utilize a sample of about 10,000 teachers to try to determine which basic mathematics skills are necessary for success in various secondary programs and in which areas most remedial attention is needed by entering students.	$ 8,960.00
19-1043	Pittsburgh School District Miss Alma B. Evans (Mini-Grant Type A)	"The Design and Rationale of a Simulated Experience for Middle School Students in Exploratory Career Orientation Curriculum" The purpose of the project is to explicate the design and rationale of an interdisciplinary curriculum linking the areas of home economics, business education and industrial arts for career information utilizing a simulated "world of work" environment.	$ 1,000.00
19-1044	Lancaster County AVTS - Brownstown Mr. Garland Gingerich	"School-Based Job Placement Service Model: Phase I - Planning"	$27,910.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1044 (continued)		The purpose of this project is to develop a model for a school-based job placement service to be operated on a full-time basis. Its development will be based upon an analysis of socioeconomic data, demographic data, occupational graduates and trainees and occupational needs of a defined geographic area.	
19-1045	Pittsburgh Public Schools Mr. Van Hughes (Mini-Grant Type B)	"Investigation of Vocational Opportunities in the Printing Industry" The purpose of this project is to improve the career information materials for the printing industry.	$ 425.00
19-1046	Pittsburgh Public Schools Miss Lois L. Marcello (Mini-Grant Type B)	"Video Tapes as a Classroom Aid in Teaching Child Development" The purpose of this project is to prepare several 10 to 15 minute video tapes to be used as visual supplements in teaching child care and development. Each tape will present one or more related concepts and their practical applications as used in an actual nursery school setting.	$ 500.00
19-1047	The Pennsylvania State University Mr. Robert L. Whitman (Mini-Grant Type A)	"An Administrative-Counselor Plan to Assess the Vocational Development of Rural Disadvantaged 8th and 9th Grade Students in Relation to Vocational-Technical Education"	$ 1,000.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1047 (continued)		A study of the process of vocational development among rural disadvantaged 8th and 9th grade students. The attitudinal dimension of vocational maturity will be studied in detail.	
19-1048	Shippensburg State College Dr. Max G. Cooley	"Extension of Project No. 40001 to Review Shorthand Attrition Problem" Project will complete analysis of data and reporting of project to examine characteristics of students likely to complete the shorthand course sequence.	$ 4,075.00
19-1049	Fayette County AVTS Mr. Owen F. Fields (Mini-Grant Type A)	"A Comparison of Students' Reading Abilities, the Readability of Textbooks and Students' Attitudes Toward Textbooks in Seven Areas of Vocational Education in a Western Pennsylvania Area Vocational-Technical School" The study will examine compatibility of reading ability and textbooks used in automobile mechanics, business education, cosmetology, data processing, distributive education, machine shop and welding.	$ 430.00
19-1050	American Management Center Mr. Noor Khan	"An Assessment of the Impact of Research and Related Projects on Educational Practices in Pennsylvania" This research study will address itself to the following questions:	$33,300.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1050 (continued)		1. Did research and related projects funded through the RCU influence vocational educational practices in Pennsylvania? 2. Which research and development activities have had the greatest impact? 3. What variables influenced the success of various projects?	
19-1051	Lancaster County AVTS Mr. J. Richard Murr	"A Developmental Teacher Workshop on Career Education on a K-12 Basis in Lancaster County" The purpose of this project is to plan and implement a cooperative workshop for selected school personnel in career education.	$12,400.00
19-1052	Riverside School District Mr. Ralph D'Amico (Mini-Grant Type A)	"A Survey to Determine Job Opportunities and Requirements for Beginning Keypunch Operators" Selected business offices will be contacted to determine employment requirements and practices.	$ 460.00
19-1053	Delaware County AVTS Mr. Robert J. Riehs	"Curriculum Development and Revision in the Area of Remedial Mathematics for Vocational Students" The goal is to significantly raise the math competency level of vocational-technical students. The project will include the development of diagnostic	$ 3,564.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1053 (continued)		testing materials and the construction of audio tapes and coordinated worksheets aimed at eliminating deficiencies.	
19-1054	Temple University Miss Somporn Bharksuwan (Mini-Grant Type A)	"A Study of the Commonalities in Vocational Education Courses in State Supported Universities in Pennsylvania"	$ 1,000.00
19-1055	Scotland School for Veterans' Children Mr. John Kanuk	"Relationship Between AVTS Schedule Models and Student Achievement" The purpose of this project is to compare aspects of student achievement among several AVTS schedule models.	$ 550.00
19-1056	West Chester State College Dr. Ernest L. Peters	"Workshop in Proposal Writing" The purpose of this workshop was to provide vocational educators with information about sources of funding and provide them with training in proposal writing.	$ 4,882.90
19-1057	The Pennsylvania State University Mrs. Suzanne P. Loss (Mini-Grant Type A)	"Analysis of Physical Nonverbal Components of Classroom Interaction"	$ 1,000.00

Project No.	Agency/Person	Title/Abstract	Amount
19-1058	School District of Philadelphia Mr. William Bell	"Installation and Testing of a Vocational Evaluation System" The program will install a Singer/ Graflex Vocational Evaluation System and attempt to evaluate its effectiveness with students.	$10,290.00
19-1060	The Pennsylvania State University Dr. Thomas F. Powers	"Development of a Validated Instructional System for Hospitality Education" This project is a supplemental grant to project 19-1016 which is designed to develop a prototype instructional system in hospitality education for postsecondary students.	$ 5,715.00
19-1061	Delaware County Intermediate Unit Mr. Merrill Hughes	"A Research and Developmental Workshop for Vocational Teachers in Writing Behavioral Objectives" The teachers of the AVTS expressed unit and task objectives of their curriculum in behavioral terms.	$ 8,081.56
19-2005	The Pennsylvania State University Dr. Samuel M. Curtis	"Education in Agriculture for the Educationally Disadvantaged" This project will field test educational materials for educationally disadvantaged students in vocational agriculture classes. The materials were developed during the previous year of this project.	$30,987.00

Project No.	Agency/Person	Title/Abstract	Amount
19-2006	The Pennsylvania State University Dr. Edwin L. Herr	"A Research Investigation Designed to Create a Career Development Education Model for Grades K-12" This project proposes to develop a syllabus that outlines a career development education model for grades K-12.	$47,138.00
19-2007	The Pennsylvania State University Dr. Joseph Impellitteri	"A Longitudinal Study of Vocational Development and Program Evaluation: Implications for Curriculum Planning and Vocational Guidance: Phase II" This project will relate student measures to 9th grade achievement and also examine the effectiveness of the vocational program in bringing about desired changes in students over a three-year span. This is a continuation of Project No. 19-1013.	$53,276.00
19-2008	Harrisburg School District Mr. Horace Cameron	"Cooperative Distributive Education for Disadvantaged Youth" This project locates unemployed youth who have dropped out of high school and provides a supervised work experience program including those academic skills needed on the job. All facilities are located at a local shopping center.	$61,992.00

Project No.	Agency/Person	Title/Abstract	Amount
19-2009	Gannon College Dr. William H. Culp	"Project GIVE: Guidance in Vocational Education--Elementary" The purpose of this project was to provide elementary teachers and guidance counselors with industrial and vocational experiences to better prepare them to deal with the career development of their students.	$30,000.00
19-2010	Midwestern Intermediate Unit IV Dr. Angelo Pezzuolo	"Comparative Follow-Up Study of Former Mentally Retarded Students in Intermediate Unit IV Area" This project will try to determine what educational programs have been most successful for training EMR students and to try to use this information to plan better programs in the future.	$14,136.00
19-2012	Bucks County Intermediate Unit Dr. James Ross	"Supervised Independent Study Program" This is the second year of an exploratory program in Bucks County to provide supervised independent study for the school dropout, the unemployed and the underemployed, the socially and culturally disadvantaged and for persons with special needs not currently being met in the formal education program.	$47,773.00

Project No.	Agency/Person	Title/Abstract	Amount
19-2013	Mercer County AVTS Mr. Robert G. Brown	"Agricultural Environmental Technology" The objective of this program is to develop curricula that can be used to train secondary vocational students in careers relating to environmental technology in agriculture.	$16,407.81
30918	Pittsburgh Public School District Mr. John Pardini	"Project Set" (Select Employment Trainee) Phase I, developmental portion of a three-phase research and demonstration program, designs an educational program in cooperation with the industrial/business community for students who are identified as potential "dropouts" from regular or "mainstream" education programs.	$19,980.00
30934	Millersville State College Mr. Joseph Blake	"Pennsylvania Vocational-Technical Education Information Dissemination System" The objectives of this project are: 1. To operate an effective state vocational-technical education information dissemination system 2. To determine the effectiveness of the system by conducting user analysis studies 3. To fulfill the objectives of the RCU by disseminating vocational information	$67,686.00

Project No.	Agency/Person	Title/Abstract	Amount
30934 (continued)		4. To work cooperatively with VT-ERIC and other states in dissemination projects.	
30935	The Pennsylvania State University Dr. Samuel Curtis	"Milk Marketing Instructional Unit Development and Dissemination" A project to develop and disseminate via in-service education a teacher's manual and student handbook on Milk Marketing to be used in high school and adult agriculture classes.	$ 8,100.00
30937	Penn Hills Township School Dr. Arthur Kelley	"Revision of the Previously Implemented Curriculum Designed for Teaching the Service Occupations in the Penn Hills School District Vocational Department" The purpose of the project was to complete the revision and updating of curriculum materials developed for the disadvantaged youth in the Penn Hills School District. The materials being revised resulted from previously funded BVTCE projects.	$ 7,436.00
40001	Pennsylvania Business Education Association Dr. Elizabeth Ripka	"Shorthand Attrition Research Proposal--A Study to Identify the Characteristics of Students Who May Be Unsuccessful in the Study of Shorthand"	$30,615.00

Project No.	Agency/Person	Title/Abstract	Amount
40001 (continued)		A project to determine what factors can be identified as predictors of success or failure in shorthand.	
40004	West Chester State College Dr. Ernest Peters	"Orientation to Research: An Institute for Vocational Education Teachers" The purpose of this special study institute is to provide 20 vocational education teachers with a minimum background in research methods, statistics and proposal development.	$ 6,640.00

Project No.	Agency/Person	Title/Abstract	Amount
20-1001	Springfield School District Mr. Kenneth K. Wallick		$27,125.00
20-1003	Greater Johnstown Area Vocational-Technical School Mr. Robert Kifer	"Model Career Resource Centers in Schools for the Systematic Purposeful Use of Career Information"	$19,090.00
20-1004	North Hills Area School District Mr. James Higgins	The project will establish model Career Resource Centers in local school settings for the dissemination of current, accurate and relevant career resources in a systematic and purposeful manner.	$20,624.00
20-1005	York County Area Vocational-Technical School Mr. Theodore Sheckart		$18,415.00
20-1006	State College Area School District Dr. Richard Warner		$19,150.00

Project No.	Agency/Person	Title/Abstract	Amount
20-1002	Hazleton Area School District Mrs. Nancy Gilgannon	"Innovative Utilization of Television for Dissemination of Occupational Information Through Regional Industrial Participation" The purpose of the project is to establish an occupational tape library of occupations normally taught in area vocational-technical schools. The tapes would aim primarily at an elementary and junior high school population.	$23,901.00
20-1008	University of Pittsburgh Dr. Charles W. Steadman Dr. Irvin H. Iwler	"Develop Instructional Materials for Distributive Education Project Method of Instruction" The distributive education department of the University of Pittsburgh will develop a project method of instruction curriculum with related materials for teaching distributive education in those school districts which are too small to offer a DE cooperative program.	$20,011.00
20-1009	Capital Area Intermediate Unit #15 Dr. M. D. Rudisill	"A State Agency for the Preparation of Career Information for Use by Students in Local Schools" The project will establish a centrally located system of production of career information pertinent to students from a wide range of abilities and interests which, in turn, will be distributed for use in school districts throughout the Commonwealth.	$77,674.00

Exemplary Projects (1972-1973)

Project No.	Agency/Person	Title/Abstract	Amount
20-2001	Springfield School District Mr. Kenneth K. Wallick		$16,275.00
20-2002	North Hills School District Mr. James C. Higgins	"Model Career Resource Centers in Schools for the Systematic Purposeful Use of Career Information"	$17,300.00
20-2003	State College Area School District Dr. Richard W. Warner	The project will continue to support the activities of the career resource centers to disseminate current, accurate and relevant career resources in a systematic and purposeful manner.	$ 6,842.00
20-2004	Greater Johnstown AVTS Mr. Robert H. Kifer		$13,372.00
20-2005	York County AVTS Mr. Henry F. Pilker		$ 9,297.08
20-2006	Central Columbia School District Mr. Carl N. Everett	"Development of Modular Courses in Vocational Curriculum"	$16,950.00

Project No.	Agency/Person	Title/Abstract	Amount
20-2006 (continued)		This project is the second year of reorganization of the vocational and academic programs in a semester type organization. Variables studied include club activities of students and vocational courses elected.	
20-2007	Capital Area Intermediate Unit #15 Dr. M. D. Rudisill	"PENNscripts Career Briefs for Student Use in the Schools of Pennsylvania" This project will continue the improvement of the career information resources available to students through the preparation and dissemination of current, relevant and accessible career scripts and related materials.	$96,229.00